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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/682,196	10/10/2003	Dorel Ioan Toma	243414US6YA	1260
22850 7590 11/02/2007 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			NGUYEN, THANH T	
ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
		2813		
			NOTIFICATION DATE	DELIVERY MODE
			11/02/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

		Application No.	Applicant(s)			
		10/682,196	TOMA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Thanh T. Nguyen	2813			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
2a)⊠	 Responsive to communication(s) filed on <u>21 August 2007</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 					
Dispositi	on of Claims					
5)□ 6)⊠ 7)□ 8)□ Applicati 9)□ 10)□	Claim(s) 1-29 and 49-53 is/are pending in the adaptive day of the above claim(s) 1-29, 49-51, 53 is/are Claim(s) is/are allowed. Claim(s) 52 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine and the drawing(s) filed on is/are: a) access applicant may not request that any objection to the drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine and the oath or declaration is objected to be objected to by the Examine and the oath or declaration is objected to be	withdrawn from consideration. relection requirement. repted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is objected.	ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) 🔲 Notice 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 8/24/07	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-29, 49-53 have been considered but are moot in view of the new ground(s) of rejection.

Election/Restrictions

Applicant's election with traverse of species III, claims 16, 25, 52 in the reply filed on 8/21/07 is acknowledged. The traversal is on the ground(s) that the office has not provided sufficient reasons for examples to support a conclusion that the species are indeed patentably distinct. This is not found persuasive because specie 1 is exposed the dielectric layer by using combination of CxHy and chlorine, specie 2 is exposed the dielectric film to CxHy, species 3 is exposed dielectric film to TMCTS or OMCTS (compound containing oxygen, silicon and methyl group), and specie 4 is exposed dielectric film to CxHy within liquid phase or supercritical phase. Each of these four species are patentably distinct from each other because each of these treatment would provide the surface of the film to have different property. Therefore, there is no reason why a search for first species must include a search for the second, third, or fourth species as well. The existence of four distinct species provide evidence of burden on the examiner in examining both inventions.

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Since claims 1-29, 49-51, 53 are patentable distinct from claims 32-47. The distinctness between a process of making one species to other species made is shown." MPEP § 806.04(f). Serious burden on the examiner is shown according to the criteria of MPEP § 808.02, where one of the following must be supported by appropriate explanation:

1. Separate classification thereof:

This shows that each distinct subject has attained recognition in the art as a separate subject for inventive effort, and also a separate field of search. Patents need not be cited to show separate classification.

- 2. A separate status in the art when they are classifiable together;....
- 3. A different field of search

For these reasons set forth above, the restriction requirement is proper.

The requirement is still deemed proper and is therefore made FINAL.

It is further noted that even though the claims 16, 25 are shown exposing the dielectric film with TMCTS and OMCTS. However, these two claims are withdrawn from consideration because claims 16, 25 depend on the non-elected specie.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 52 is rejected under 35 U.S.C. 102(e) as being anticipated by Conti et al. (U.S. Patent No. 6,570,256).

Referring to figures 1-4, Conti et al. teach a method of treating a dielectric film comprising:

exposing at least one surface of the dielectric film (22) to at least one of TMCTS and OMCTS, (see figure 2, col.), wherein

the dielectric film (22) has a dielectric constant value less than the dielectric constant of SiO2 (noted that dielectric constant less than 3.3 (2.7) which is much smaller than SiO2 (dielectric constant 4.5).

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting

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ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 52 is provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 19-20, 25 of copending Application No. 11/239294, claims 1, 12 of copending Application No. 11/239,291, claims 19-20, 25 of copending Application No. 11/239,306, claims 1, 6 of copending Application No. 11/060352. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant invention and the copending applications teach a method of exposing the dielectric film to at least one of TMCTS and OMCTS.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Nguyen whose telephone number is (571) 272-1695, or by Email via address Thanh.Nguyen@uspto.gov. The examiner can normally be reached on Monday-Thursday from 6:00AM to 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr., can be reached on (571) 272-1702. The fax phone number for this Group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pairdirect.uspto.gov. Should you have questions on access to thy Private PAIR system, contact the Electronic Business center (EBC) at 866-217-9197 (toll-free).

Thanh Nguyen
Patent Examiner

Patent Examining Group 2800